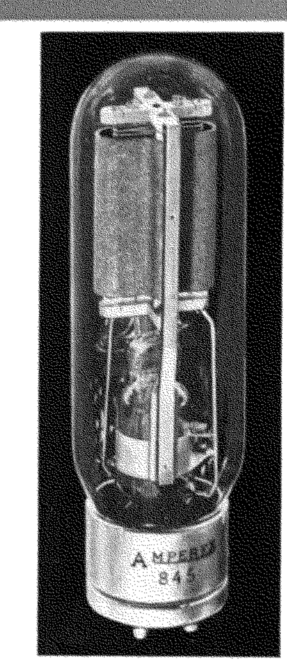
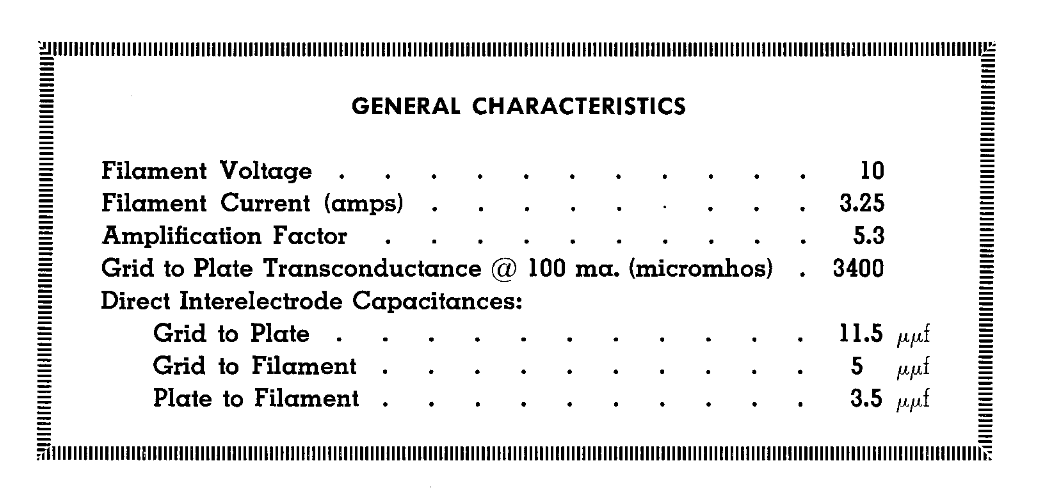
Audio Frequency Power Amplifier, Modulator





GENERAL CHARACTERISTICS

Filament Voltage	10
Filament Current (amps)	3.25
Amplification Factor	5.3
Grid to Plate Transconductance @ 100 ma. (micromhos)	3400
Direct Interelectrode Capacitances:	
Grid to Plate	11.5 μμf
Grid to Filament	5 μμf
Plate to Filament	3.5 μμf

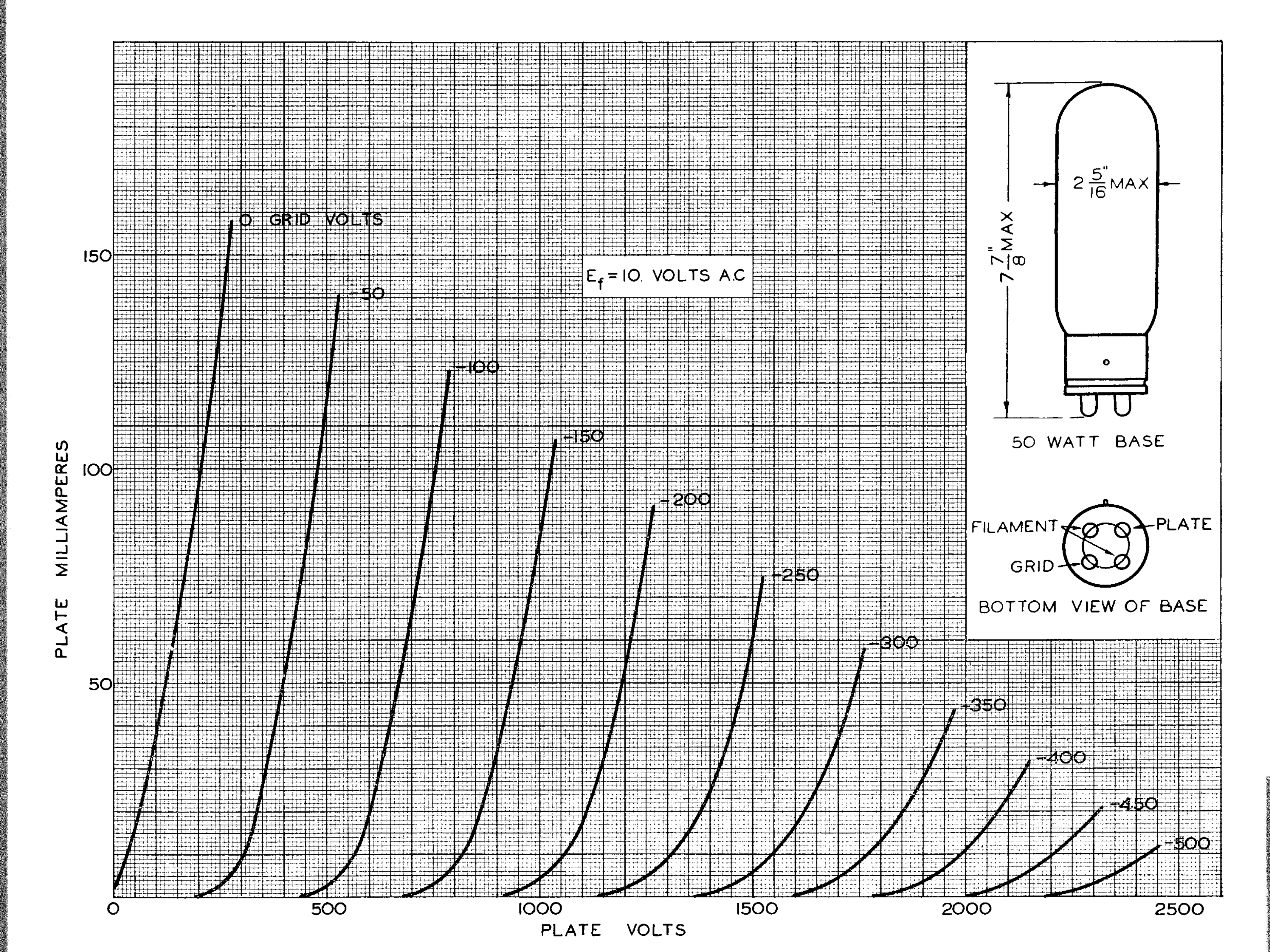
MAXIMUM RATING AND TYPICAL OPERATING CONDITIONS

A.F. Power Amplifier and Modulator—Class A

	Maximum Rating per Tube	Typical Operation One Tube		
A.C. Filament Voltage	—	10	10	10
D.C. Plate Voltage	1250	750	1000	1250
D.C. Grid Voltage	—	—98	—155	—209
Peak A.F. Grid Voltage	—	93	150	204
D.C. Plate Current (ma.)	—	95	65	52
Plate Dissipation (watts)	75	71	65	65
Load Resistance (ohms)	—	3400	9000	16000
Power Output (watts)	—	15	21	24
Distortion (% Second Harmonic)	—	5	5	5

A.F. Power Amplifier and Modulator—Class AB

	Maximum Rating per Tube	Typical Operation Two Tubes	
A.C. Filament Voltage	—	10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage (Approx.)	—	—175	—225
Load Resistance (ohms per tube)	—	1150	2200
Effective Load Resistance (plate to plate) (ohms)	—	4600	8800
Zero Signal Plate Current (ma.)	—	40	40
Peak A.F. Grid to Grid Voltage (Approx.)	—	340	440
Max. Signal D.C. Plate Current (ma.)	120	220	200
Max. Signal Plate Input (watts)	130	220	250
Plate Dissipation (watts)	75	—	—
Max. Signal Power Output (watts)	—	75	105


PLATE MILLIAMPERES
50
100
150
0
500
1000
1500
2000
2500
PLATE VOLTS
0 GRID VOLTS
-50
-100
-150
-200
-250
-300
-350
-400
-450
-500
E_f = 10. VOLTS A.C
$7\frac{7}{8}$" MAX
$2\frac{5}{16}$" MAX
50 WATT BASE
FILAMENT
GRID
PLATE
BOTTOM VIEW OF BASE